

## MATH 302 Discrete Mathematics

**Assignment 9.** Due on Wednesday, November 18, 2009

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**Read:** Sections 5.1, 5.3, 5.4.

**Definition:** Write down the definitions for the following terms. [5 points]

**The product rule**

**The sum rule**

**r-permutation**

**r-combination**

**The binomial theorem**

**Problems to be graded:** [10 points]

§5.1/ 10, 16, 20, 24.

§5.3/ 12, 18, 22, 30.

§5.4/ 8, 10.

**Other problems:**

§5.1/ 5, 8, 9, 22, 26, 27, 28, 29, 33, 34, 35.

§5.3/ 2, 6, 8, 13, 14, 23, 26, 28, 32.

§5.4/ 1b, 2b, 3, 4, 5, 6, 7,